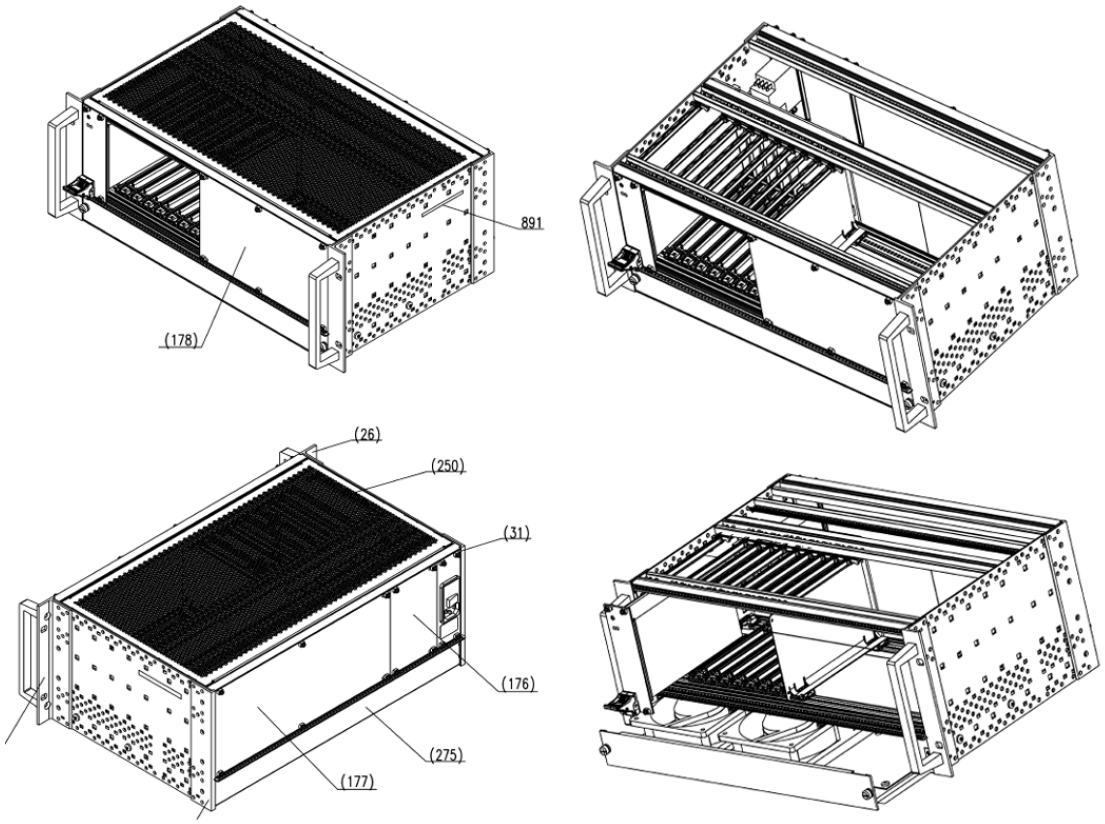
CPCI to CPCI Serial Hybrid Rack for Single Eurocards

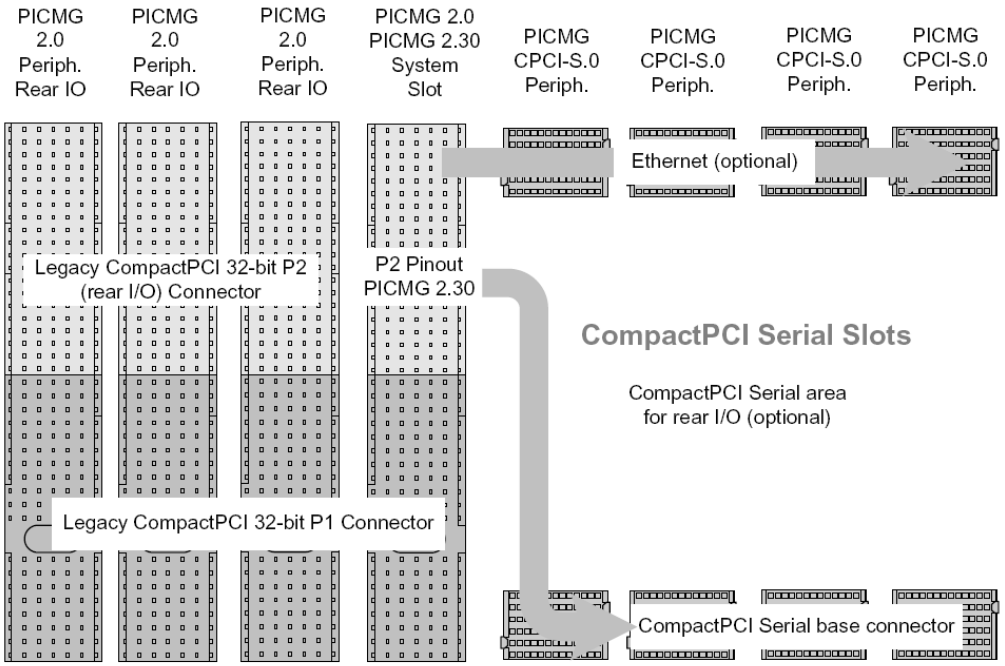
- **19" rack-mountable**
- **IEEE 1101.10/11 compliance**
- **4U / 84 HP system (incl. 1U fan tray)**
- **8-slot hybrid backplane**
- **CompactPCI® PlusIO system slot**
- **4 CompactPCI® Serial (PICMG CPCI-S.0) peripheral slots to the right**
- **3 CompactPCI® peripheral slots to the left**
- **All slots prepared for rear I/O**
- **250 W Plug-in PSU 90..264 VAC**
- **44HP space for individual extensions**
- **For MEN SBCs F11S, F12N, F14, F15, F17, F18, F19P, F21P, F22P, F50P, F75P**

This compact 4U rack-mount enclosure is a basic system that allows the configuration with both CompactPCI® Serial and CompactPCI® cards. Being a hybrid system, it offers an uncomplicated and cost-effective migration solution from parallel 3U CompactPCI® to serial CompactPCI® Serial via the CompactPCI® PlusIO standard.
The 8-slot hybrid backplane in this configuration does not need a bridge or an active logic. The four slots on the left are designed for 32-bit CompactPCI® and rear I/O on P2. The four slots on the right are reserved for CompactPCI® Serial. The CompactPCI® PlusIO system slot is the fourth slot from the left. Either a standard CompactPCI® 2.0 or a PICMG 2.30 CompactPCI® PlusIO CPU board can be used in this slot.
This hybrid system is designed for use with the MEN system-slot SBCs F11S, F12N, F14, F15, F17, F18, F19P, F21P, F22P and F50P. Only F19P, F21P, F22P and F50P support CompactPCI® Serial.
That way, the three remaining slots on the CompactPCI® bus and the four CompactPCI® Serial slots can be used to install additonal I/O functions.
While the CompactPCI® Serial slots on the right are best suited for functions like Gigabit Ethernet, 10 Gigabit Ethernet or high end graphic with high data rate requirements, the parallel CompactPCI® bus delivers enough performance for all kinds of conventional I/O like binary or analog signals.
In addition, the system offers space for mass storage devices.
A 8HP plug-in 250W power supply unit which is accessible at the back of the system is already included and wired.
The enclosure meets EMC requirements, making it a perfect choice for embedded applications in harsh environments.
Ask us for completely configured, wired and tested systems!

Diagram



Backplane


PICMG 2.0 Periph. Rear IO
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PICMG 2.0 Periph. Rear IO
PICMG 2.0 PICMG 2.30 System Slot
PICMG CPCI-S.0 Periph.
PICMG CPCI-S.0 Periph.
PICMG CPCI-S.0 Periph.
PICMG CPCI-S.0 Periph.
Ethernet (optional)
Legacy CompactPCI 32-bit P2 (rear I/O) Connector
P2 Pinout PICMG 2.30
CompactPCI Serial Slots
CompactPCI Serial area for rear I/O (optional)
Legacy CompactPCI 32-bit P1 Connector
CompactPCI Serial base connector

Technical Data

General System Characteristics	■ Compliance with IEC 60 297-3, IEEE 1101.10 ■ 8 slots for 3U Eurocard boards (4 CompactPCI® Serial slots)
Mechanical Specifications	■ 19" rack-mount standard ■ 3U card vertical ■ Dimensions: 3U, 84HP, 278mm depth ■ Weight: tbd.
CompactPCI®/CompactPCI® Serial Backplane	■ 8-slot ■ CompactPCI® PlusIO system slot on the fourth slot from the left □ Support of four CompactPCI® Serial peripheral slots ■ Three CompactPCI® peripheral slots ■ Four CompactPCI® Serial peripheral slots
Power Supply	■ Plug-in power supply □ 3U/8HP □ 250W □ 90V..264V AC wide range □ 3.3 V/40A, 5 V/40A, 12V/5.5A, -12 V/2A □ 3U power backplane with P47 receptacle □ 3U power input module with IEC input, fuse holder, line filter and power switch ■ Power connector and power-on switch at the back
1U fan chassis	■ Two vertical fans □ 12V □ Air flow volume 140 m³/h (manufacturer's data) □ Dimensions 119 x 119 x 32 mm □ Sound pressure level 39 dB(A)
Environmental Specifications	■ Temperature range (operation): □ 0..+50°C ■ Temperature range (storage): □ -40..+85°C □ Power supply: -20..+65°C without derating ■ Relative humidity (operation): max. 95% non-condensing ■ Relative humidity (storage): max. 95% non-condensing ■ Altitude: -300m to + 3,000m ■ Shock: 15g/11ms ■ Bump: 10g/16ms ■ Vibration (sinusoidal): 2g/10..150Hz
EMC	■ Tested according to EN 55022 (radio disturbance), IEC1000-4-2 (ESD) and IEC1000-4-4 (burst)
Suited for MEN Boards...	■ F11S - 3U CompactPCI® Intel® Atom™ SBC ■ F12N - CompactPCI® MPC5200B SBC ■ F14 - CompactPCI® Pentium® M SBC ■ F15 - CompactPCI® Core Duo SBC ■ F17 - CompactPCI® Core 2 Duo SBC ■ F18 - CompactPCI® Core 2 Duo SBC ■ F19P - CompactPCI® PlusIO Core 2 Duo SBC ■ F21P - CompactPCI® PlusIO Intel® Core™ i7 SBC ■ F22P - CompactPCI® PlusIO Intel® Core™ i7 SBC ■ F50P - CompactPCI® PlusIO MPC8548 SBC ■ F75P - CompactPCI® PlusIO Intel® Atom™ Safe Railway Computer

Ordering Information

Standard CPCI to CPCI Serial Hybrid Rack for Single Eurocards Models	**0701-0056**	CompactPCI® 19" 4U/84HP rack-mount enclosure for 3U cards (vertical), 4+4-slot 3U CompactPCI® / CompactPCI® Serial hybrid backplane, prepared for rear I/O, 250W power supply wide range 90..264VAC on rear, 1U fan tray with 2 fans included, 0..+60°C
	MEN delivers turn-key systems completely installed (hardware, operating system, accessories), wired and tested. Different rack sizes, power supplies and backplanes on request. For details please contact your local sales representative.	
Miscellaneous Accessories	**0714-0009**	Filler panel 3U/4HP, IEEE1101, textile gasket
	0714-0018	Filler panel 3U/8HP, EMC gasket, fully pre-mounted
	0714-0019	Filler panel 3U/12HP, EMC gasket, fully pre-mounted

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